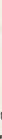
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Cotton Fiber and Processing Test Results

RIOP OF



Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 December 8, 1972

This is the ninth of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

## Discussion of Test Results

Cotton testing laboratories of the Agricultural Marketing Service, USDA, report short staple samples tested, to date, are longer, finer and stronger than last season. Yarns spun from these samples are stronger and show fewer imperfections than a year ago. Average spinning potential yarn number is higher through the same period a year ago.

Averages for all medium staple samples tested through December 1, 1972 show stronger fibers at zero gage than through the same date a year ago. Yarns spun from these samples show fewer imperfections. Average spinning potential yarn number is higher.

Medium staple samples from the Southeast are stronger than last season. Shirley Analyzer nonlint content is lower, as is picker and card waste than a year ago. Yarns spun from these samples are stronger and show lower yarn appearance grades. Fewer imperfections were shown in samples tested this season. Average spinning potential yarn number is higher.

South Central medium staple samples are stronger than a year ago. Yarns spun from these samples show lower appearance grades. Fewer imperfections are noted this year. Average spinning potential yarn number is higher than a year ago.

Medium staple samples tested from the Southwest show stronger fibers than a year ago. Picker and card waste is higher. Yarns spun from these samples show more imperfections than last season. Average spinning potential yarn number is higher.

Medium staple samples tested from the West to date show weaker fibers than a year ago. Yarns spun from these samples are weaker and show fewer imperfections.

Averages for all long staple samples tested show stronger fibers than last season. Shirley Analyzer nonlint content is lower, as is picker and card waste compared with last season. Yarns spun from these samples show lower appearance grades. Average spinning potential yarn number is higher than a year ago.

Long staple samples from the Southeast show stronger fibers than last season. Shirley Analyzer nonlint content is lower. Picker and card waste is also less than a year ago. Yarns spun from these samples show lower appearance grades. Average spinning potential yarn number is higher than a year ago.

No additional long staple lots were spun from the South Central area during this report period.

Long staple samples from the West show about the same fiber test results as last season. Picker and card waste is lower than a year ago. Yarns spun from these samples show lower appearance grades and more imperfections. Average spinning potential yarn number is higher than a year ago.

Extra long staple, American Pima, samples from the West show about the same fiber test results as last season. Yarns spun from these samples show lower yarn appearance grades than last season.

Averages of fiber and processing tests from selected gin points in the United States through December 1, 1972

Table 1.--Cotton:

		Fiber	er test	results				Processing test results	ng test	results	
	Fibrograph	raph	Mike fine-	Fiber	strength		,	Yar	Yarn quality	ty	anin
	2.5% span	50/2.5 unif.	ness	Zero gage	1/8" gage	S A nonlint	P&C waste	Skein str.	Appear-Imperf- ance ections	Imperf- ections	Potent.
' ''	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs. 22s	Index	No. Yarn	Yarn No
	0.96	45 45	5.0	80 8†	50 50 50 50	3.0	6.3	95	120 119	25	38 47
	1.08	45 45	†. † 4. 4	79	83	4.0	6.5	100	109	20 16	62
	1.10	45 45	ካ. ካ. ካ	81 84	22	9 9 9 9 8	5.8	104 104	113	20 18	62 64
	1.07	45 46	4.6	98 78 84	55 55 55	00.0	5.6	103 103	121	19	59 63
	1.12	45 45	4.4	93 91	25 25	9.0	5.1	122 113	121	23 15	70
	1.10	45 45	٦ ٦ ٦	83 86	88	0.8°	5.0	106 106	411 411	20 18	63
	0.02	Q	0.2	α		0.5	0.5	4 (22s)	5	Q	m

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality

Averages of fiber and processing tests from selected gin points in the United States through December 1, 1972 1/ (Continued)

Table 1. -- Cotton:

						) <del>-</del>					
	SPY	No.	69 99	70	78	7.1				М	
1	ctns	Somb No.	10	0/∞	13	11	el Is	11 5	a m	Ø	
		No. No.	23 24 24	20	000.000	22 23	ed Yarn			α	
Results	Quality Appearance	ubed carded combed carded card	118 116	117	104	113	's Combed	100	121 109	77	
Test	Yarn Quality Appearan	Indx	108	107	100	105	50			5	
Processing Test Results		Lbs.	121 123	130	147 146	132 134		<del>1</del> 9	66	4(22s) 2(50s)	
Pro	Strength	Lbs. Lbs.	105	113	130	115	and		ma em:	4(22s)	
	Comber	Pct.	17.0	16.4	15.6	16.4	American Upland	17.2 16.4	American Pima .1 17.6 .8 18.1	0.5	
	P&C Waste	Pct.	8.3	9.6	8.1	9.1	Ameri	7.9	Ame1 8.1 7.8	0.5	יו+ין פווס
	SA Non-	Pct.	4.4	5.3	ત્ય છ જ જ	3.7		a a	2.5	0.5	la Capon
8	1/8"	g/tx	23	ななっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっちゃっ	27	25		31 32	32 31	Т	, a
Results	Strength Zero 1/8	Mpsi	80 85	883	9 <b>2</b>	88 88		112	866	α	مواهر
Test F	Mike	Rdg.	4.4	44.3	3.3	4.5	ay	0.4	8.8 9.9	0.0	- G
Fiber	nii	Pct.	†† ††	4 42	†††	††4 †43	Array	32 31	32	N	hor
E-	Length Span U	In.	1.15	1.22	1.18	1.17		1.41	1.45	0.02	a limited number of
	Lots	No.	11	mm	10	22		нн	<b>ω</b> ω		ושיר
	Staple group, Area, and Crop year	Iong Staple:	Southeast 1971 1972	South Central 1971 1972	West 1971 1972	U. S. Average 1971 1972		Extra Long Staple: West 1971	West 1971 1972	Significant Difference 2/	a no beset / [

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. 1/ Based on a limited number of samples of modal quality 2/ Minimum differences considered to he cimification

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

	Spin. Poten-	tial	NO		38	77	41
	Imprfect'ns	22sor 27 tx	외		14	23	15
(arns	Imprí	8s or 74 tx	임		29	33	23
arded	ance	22sor 27 tx	외		120	120	130
lts - C	Appearance Index	8s or 22sor 8s or 22sor 74 tx 27 tx	SI SI		5.5 120	120	130
Processing Test Results - Carded Yarns	tion	Gra Yel Waste 8s or 22s or 74 tx 27 tx 74 tx 27 tx 74 tx 27 tx	Pct			5.7	93 6.5 5.5 130 130 23 15
sing Te	Elongation	8s or 74 tx	Pct Pct		6.3	6.3	6.5
Proces	gth	22s or 27 tx	sq:		89	06	93
	Strength	8s or 74 tx	sq <u>1</u>		ENT 286	ENT 289	302
1	Color Raw Stock P & C	Waste	Pct		99 PERCENT 4 5.9 286	100 PERCENT 4 7.0 289	99 PERCENT 4 5.9 302
	Color aw Stock	Yel	읽		9	10	0 4
	Co Raw	Gra	읽		7	4	т
	Elon- S.A.	lint	Pet		2.5	3.8	3.2
Lts	Elon-	1/8"	Pet		57 6.6 2.5	LX571 6.0	57
Fiber Test Results	oer ngth	1/8" Gage	G/tex		ANKART	-ANKART LX571 20 6.0	ANK ART 20
Fiber 1	Fiber Strength	Zero Gage	Mpsi		88	98	06
	Mike		Rdg		4.7	4.5	5.3
	tal raph	Unif	Pet_		94	46	46
	Digital Fibrograph	2.5% span	티		0.91	96*0	41 30 0.95
		Stple	32s	AREA	30	30 (	30
rea,	er			Ā	32	45	41
Production Area, Classification	& Sample Number	No Name & Code		SOUTHWEST CENTRAL TEXAS	FORNEY 3 MID LT SP 32 30 0.91	174SCA 3 SLM LT SP 42 30 0.96	MCK INNEY 3 SLM

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

	1-4	tial	<u> </u>	8	52	54	52	73	11	14	69	62		69	60
	Sectins	12 tx	<b>≩</b>	14	18	19	œ	14	16	11	11	19		12	11
	Impri	27 tx	<b>}</b>	15	18	21	0	18	18	22	20	23		19	15
	ance	12 tx	<u> </u>	80	70	06	100	06	80	80	80	80		06	100
	Appear Inde	27 tx	2	100	06	06	120	100	100	100	100	06		120	12 <u>0</u>
	ation			0.4	4.4	4•3	3.8	4.6	5.1	5.3	1.4	5.0		4° 8	3.7
	(	27 t		5.5	6.3	6.2	5.4	6.2	9.9	9.9	9.9	6.5		6.2	5.5
	angth	12 tx		*	30	28	56	38	45	45	45	45		45	32
-	υ o	_		PERCENT 8 84	PERCENT	PERCENT 0 87	PERCENT	PERCENT 6 110	PERCENT	PERCENT 2 113	PERCENT 5 113	PERCENT		PERCENT 7 110	100 PERCENT 6.1 94
+	성	-					10								
2	COLO														4 3
				~	80		<b>v</b> 0	9			80				
-		$\dashv$		÷	1.	113	2.	2.	m	w.	ů.	en.			213 3.0
-	Elon gat'	٦,		201	K ING I		KING I	201	201	7.3	201	417		•	•
	p un—			COKER 21	CIXIE 21	STONE 21	DIXIE 20	COKER 24	COKER 23	MCNAIR 24	COKER 24	COKER 25		DELTAF 24	STONEVILLE 22 5.
	Stre Zero	Gage		85	83	7.8	82	87	84	84	98	86		82	85
	Mike	Rda	1	4.	3.9	4.6	1.4	4.4	4.2	4.3	4.1	3.7		4.	6 • 4
	al raph	Unii		44	43	7,	5	47	4	48	14	45		45	46
			il	1.03	1.05	1.04	00•1	1.09	1.10	1.10	1.12	1.12		1.14	1.08
		Stple 328	E №		33	33	33	34	34		35	35	REA	35	34
			AR	41	45	51	45	41	51	20	51	52	4	14	51
8		Ц	SOUTHEASTERN	ALABAMA GERALDINE 2 SLM	TONEY 3 SLM LT SP	TUSCUMBIA 3 LM	GEORGIA BOSTWICK 3 SLM LT SP	COLBERT 2 SLM	60UGH 3 LM	NORTH CAROLINA LALRINBURG 2 LM PLUS	SOUTH CAROLINA CALHCUN FALL	YORK 3 LM LT SP	SOUTH CENTRAL ARKANSAS	ALTHEIMER 3 SLM	DUMAS 3 LM
		Sample Number Fibrograph Strength Elon- S.A. Raw Stock P & C Strength Index Imprecting Index Index Imprecting Strength Satin Non- Grade Strength Satin Non- Waste Strength Str	Digital Fibrograph   Fiber   Elon- S.A.   Raw Stock   P. & C.   Strength   Elongation   Appearance   Imprfectins	ber Digital Fibrograph Strength Strengt	Engrate         Stple         Pribrograph         Fibrograph         Fibrograph         Fibrograph         Strength         Elon-         S.A.         Raw Stock Raw Stock         P.C.         Strength         Elongation         Appearance         Imprfect'ns Index           Grade         Stple         2.5%         Unif.         Mike         Zero   1/8"         1/8"         Init         Gra         Yel         Waste         22 sor   50s or   22s or   50s or   27 tx   12 tx   tx	Strength   Pipe   Pip	Properties   Pro	Strength   Digital   Dig	Paragraph   Para	Strength   Electron   Electron	Participa   Part	Participation   Participatio	The color   The	The bull bull bull bull bull bull bull bul	The color of the

<sup>\*</sup> End breakage too high to spin 50s yarn. 44s yarn spun and strength adjusted to equivalent of 50s.

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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

								-	- 8 -				<u>.</u>		
	Spin.	Poten- tial	위		09	54	94	57	53	56	36	62	01	\$	55
	Imprfect'ns	22s or 50s or 27 tx 12 tx			10	14	11	10	11	14	14	16	39	21	4
arns	Imprf	22s or 27 tx	읽		16	18	::	15	14	24	17	19	64	27	66
- Carded Yarns	ance	50s or 12 tx	위		1 00	06	110	100	100	80	100	80	9	70	9
ults - Ca	Appearance Index	22s or 50s or 27 tx 12 tx	잉		130	120	120	120	120	120	120	120	. 01	06	10
Processing Test Results	Elongation	50s or 12 tx	Pet		4.7	3.7	3.5	4.3	3.7	4.1	4.5	4.7	6.4	;	4.2
sing Te	Elong	22s or 27 tx			6.2	5.8	4.5	5.9	5.4	5.9	6.2	6.5	9 .	6.1	5.7
Proces	Strength	22s or 50s or 27 tx 12 tx	Tps		38	32	31*	34	29	35	38	3.8	36	32	30
	Stre	22s or 27 tx	Tps		PERCENT 6 100	CENT 93	CENT 93	CENT 100	CENT 90	CENT 96	CENT 103	CENT	PERCENT 2 103	CENT 94	CENT 94
	P & C	Waste	Pct		100 PER 6.6	100 PERCENT 6.6 93	100 PERCENT 7.2 93	100 PERCENT 6.5 100	90 PERCENT 6.4 90	100 PERCENT 6.1 96	100 PERCENT 5.7 103	100 PERCENT 5.6 100	100 PER 8.2	100 PERCENT 7.9 94	100 PERCENT 7.1 94
	Color Raw Stock	Yel	읡		2	س 1	3	2	4	2		7	7 7	2	2
	Co] Raw S	Gra	욁		м	4	. *	4	•	4	7	2	r.	4	m
	S.A.	Non- Lint	Pet		4.0	3.2	8	3.7	3.4	3.6	2.4	2.3	3.6	3.0	3.7
t s	Elon-	gat'n 1/8"	Pet		LLE 213 6.1	LLE 7A 5.7	4.5	.TAPINE 16 23 7.8	LLE 213 6.4	ONEVILLE 213 22 6.2	.TAPINE 16 23 6.4	NE 16 7.4	NE 16 7.5	LLE 213 6.8	LLE 213 6.6
st Results	er gth	1/8" Gage	G/tex		STONEVILLE 22 6.	STONEVILLE 7A 21 5.7	QUAPAW 22	DELTAPI 23	STONEVILLE 21 6.4	STONEVI 22	DELTAPI 23	DELTAPINE 16 23 7.4	DEL TAPINE 23 7	STONEVILLE 23 6.8	STONEVILLE 213 23 6.6
Fiber Test	Fiber Strength	Zero	Mpsi		85	83	86	83	80	83	48	4	8	83	81
H		Mike	Rdg		9.	4.4	4.7	4.4	4.7	4.3	4.6	4.1	9.3	4.5	3.2
	al graph	Unif.	Pct		47	44	47	4	94	44	45	<b>4</b>	41	7,7	45
	Digital Fibrograph		비	inued)	1.10	1.07	0.97	1.07	1.07	1.06	1.10	1.12	1.10	1.08	1.08
		Stple	32s	(Cont	34	34	32	34	34	34	35	34	34	34	34
rea,	er			REA	51	51	51	51	45	S1	41	41	61	51	51
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTH CENTRAL AREA(Continued) ARKANSAS(Continued)	HEL ENA	OSCEOLA 3 LM	WILSON 1 LM	WYNNE 2 LM	LOUSIANA LAFAYETTE 3 SLM LT SP	LAKE PROVIDENCE 3 LM 51	MONROE 2 SLM	SHREVEPORT 3 SLM	MISSISSIPPI BELZCNI 4 SGO	CLARKSDALE 3 LM	GREENWOOD

\* End breakage too high to spin 50s yarn. 44s yarn spun and strength adjusted to equivalent of 50s.

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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

	1		1					- 9 -							
	Spin.	Poten- tial	S	49	49	75	99	69	19	09	59	52	61	70	14
	Imprfect'ns	50s or	2	26	16	15	18	25	22	34	91	13	16	15	15
Yarns	Imprf	22s or	No.	30	19	14	12	28	25	39	24	17	13	19	18
Carded }		50s or	No	70	80	80	80	7.0	70	09	80	80	80	70	70
Results - C	Appearance Index	22s or		90	100	06	110	06	06	70	06	100	100	06	100
Test Res	Elongation	50s or	Pct	4.7	4.6	5.4	4.5	5.0	5.4	4.0	4	4.3	4.2	5.2	5.0
Processing T	Elong	22s or 27 tx	Pct	6.3	6.3	6 . 8	6.3	9.9	7.0	6.3	6.2	6.3	6.1	6.9	6.9
Proce	Strength	50s or	Lbs	35	34	42	34	36	41	31	31	59	31	36	37
	Stre	22s or 27 tx	Lbs	PERCENT 8 103	CENT 100	CENT 115	CENT 98	CENT 104	CENT 114	PERCENT 6 92	PERCENT 3 793	CENT 93	CENT 93	CENT 102	CENT 106
	P & C	Waste	Pct	100 PER 6.8	98 PERCENT 5.7 100	100 PERCENT 5.3 115	95 PERCENT 6.7 98	100 PERCENT 6.4 104	100 PERCENT 6.2 114	100 PER 6.6	85 PER 6.3	70 PERCENT 5.6 93	90 PERCENT 6.4 93	98 PERCENT 5.4 102	98 PERCENT 5.5 106
	or tock	Yel	No	2	m	2	8	2	2	3 1	m	, W	8	2	~
	Color Raw Stock	Gra	No.	4	6	-	۳	6	1	4	m	8	6	8	2
		Non- Lint	Pct	<b>6</b> 3	2.3	2.1	7.	2.6	2.1	2.7	7.	2.6	6.	.7	1.9
				213			213			213	213		LEAF 2	٠,	<b>5</b> 0
ts	Elon-	gat n 1/8"	Pct	LLE 6.6	NE 16 7.6	NE 16	LLE .	NE 16 8.1	NE 16 7.6	٠,		6.5	SMOOTH LEAF	NE 16 8.0	NE 16 8.0
st Results	er gth	1/8" Gage	G/tex	STONEVILLE 23 6.6	DELTAPINE 22 7.	DELTAPINE 23 7	STONEVILLE 22 6.6	DELTAPINE 23 8	DELTAPINE 25 7	STONEVILLE 21 6.0	STONEVILLE 21 7.0	HANCOCK 22	REX SMO	DELTAPINE 21 8.	DELTAPINE 22 8.
Fiber Test	Fiber Strength	Zero	Mpsi	83	83	98	82	908	18	92	62	82	80	1 11	9 62
ഥ		Mike	Rdg	3.9	4.1	4.0	4.2	4•0	3.2	0.4	0.4	4.4	3.9	4.0	3.8
	al raph	Unif.	Fot	4	45	44	44	45	41	44	† <b>,4</b>	7 7	44	43	45
	Digital Fibrograph	CA W	nued)	1.09	1.09	1,13	1.10	1.10	1.09	1.08	1.03	1.01	1.09	1.08	1.07
		Stple	328 Conti	34	34	35	34	35	35	34	34	34	34	35	34
rea,	er		3A(	51	45	41	51	51	41	51	51	45	51	41	41
ion A	Numb	Code	L ARI -(Cor		SP	BURN	/	•.	į			SP ,			
Production Area, Classification	Sam	Name & Code	SOUTH CENTRAL AREA(Continued) AISSISSIPPI(Continued)	LYCN 3 LM	MORTON 3 SLM LT	SLM	SARDIS 3 LM	SCCTT 3 LM	TRALAKE	MISSCURI BELL CITY 2 LM	TENNESSEE 80LIVAR 3 LM	AYETTEV SLM LT	MILLINGTON 3 LM	RIDGELY SLM	SCMERVILLE SLM
1		8	SC	ω.	9	_ w	3	r)	3	MI 2	3	_ ~	6	μω	6

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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

	,						-10 -								
	Spin. Poten-	NO		63		49	63	69	51	2	55	11	62	65	75
	Imprfect'ns	No No		~		7	11	10	12	7	7	α	16	œ	6
Yarns	- CU	No No		14		11	14	13	18	11	6	14	22	11	12
- Carded Yarns	1 2 2	No No		100		100	06	100	96	100	100	1 90	8)	100	1 00
ults -	100	No tx		120		130	120	120	120	130	120	120	110	130	130
Processing Test Results	tic 50	Pet Fet		4		4.3	4.3	5.1	4.0	4.5	4.3	4.5	4.1	4.5	4.4
ssing T	000	Pet tx		6.1		5.9	6.2	7.1	5.5	5.9	5.1	5.5	5.5	5.9	5.7
Proce	ا ا ا	LP tx		39		40	39	36	32	50	37	48	43	45	48
		Libs		CENT 108		CENT 108	PERCENT 6 106	CENT*	CENT 95	CENT 125	CENT 106	10 PERCENT 5.5 118	CENT 113	CENT 118	PERCENT 7 120
	P&C Waste	Pet		95 PERCENT 6.6 108		100 PERCENT 5.4 108	94 PER 5.6	100 PERCENT* 5.3 97	100 PERCENT 5.9 95	100 PERCENT 5.3 125	70 PERCENT	100 PER 5.5	100 PERCENT 5.7 113	99 PERCENT 5.7 118	95 PER
	Color Raw Stock Gra Yel	윌		6		2	2	3	2	3	m	3	3	m	e
5	Co Raw Gra	일		4		2	2	m	2	2	-	60	6	-	۳
	S.A. Non- Lint	Pct		3.7		2.4	2.2	2.9	3.4	2.8	1.9	2.4	2.8	2.5	2.4
t s	Elon- gat'n 1/8"	Pct		NE 16 7.4		VE 16 6.8	VE 16 6.9	VE 16	NE 16 6.9	SJ-1 5.2	NE SL 5.9	SJ-1 5.5	5J-1 5.8	5.5	4-42
st Results	er gth 1/8"	G/tex		DELTAPINE 24 7		DELTAPINE 24 6	DELTAPINE 23 6	DELTAPINE 21 7	DELTAPINE 16 23 6.9	ACALA S	DELTAPINE SI 24 5.9	ACALA S	ACALA S	ACALA S	ACALA 4
Fiber Test	Fiber Strength Zero 1/	Mpsi		88		98	87	11	98	96	68	86	96	, 16	66
뇬	Mike	Rdg		4.7		6.4	4.6	4.0	4.8	4.5	4.6	4.4	4.2	4.6	4.4
	al raph Unif.	Pet		94		45	43	4	43	14	4,	45	45	94	74
	Digital Fibrograph 2.5% Uni	ul li		1.08		1.09	1.12	11.11	1.07	1.13	1.06	1.08	1.12	1.08	1.38
	Stple	32s	AREA	34	AREA	34	34	35	34	36	34	35	35	35	35
rea,			A	51	4	41	41	41	41	41	31	14	41	31	41
roduction Area Classification	Sample Number Grade			FALLS 51			,			ELD					
Production Area, Classification	Sample No Gr		SOUTHWEST OKLAHOMA	WEBBERS 1 LM	WESTERN AR I ZONA	BUCK EYE 2 SLM	PARKER 2 SLM	SAFFORD 2 SLM	STANFIELD 2 SLM	CALIFORNIA BAKERSFIELD 3 SLM	BRAWLEY 2 MID	DOS PALOS 2 SLM	EARLIMART 2 SLM	HURON 2 MID	VISALIA 2 SLM
1	Z	1	S		A A	2	7	7	(4	٠ ' '	,,				

<sup>100</sup> percent selected for tests, less than 100 percent in the area

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

	1	1		1				-	TT -			
		Spin.	Poten- tial	N <sub>O</sub>	73	75	8 4	19	61		54	
		Imprfect'ns		No	7	11	32	15	10		==	
	arns	Impri		No No	=======================================	14	64	22	16		17	
	arded Y	ance	50s or	N N	100	100	62	06	100		06	
	lts - C	Appearance Index	228	8 8	130	120	06	120	130		120	
	st Resu	ation	50s or	Pct	4.8	4.6	4.1	4.6	4.7		4.0	
	Processing Test Results - Carded Yarns	Elongation	22s or	Pct	6.1	5.8	6.1	4.9	4.9		5.7	
	Proce	ngth	50s or	rps	20	8	28	36	35		34	
		Strength	22s or 50s or 27 tx 12 tx	Lbs	125	ENT 120	ENT*	ENT*	ENT*		ENT 99	
		Color Raw Stock P & C	Waste	Pct	100 PERCENT* 5.9 125	100 PERCENT 5.4 120	100 PERCENT* 7.3 85	100 PERCENT* 5.1 98	100 PERCENT* 6.0 95		100 PERCENT 7.0 99	
		Color w Stock	Yel	욁	10	10	10	3	3		3 10	
			Gra	읾	2	2	4	2	8		m	
		S.A.	Lint	Pct	2.4	2.5	9 °6	2.5	3.0		3.6	
	t s	Elon-	1/8"	Pct	5.8	J-1 5.6	4789-1	IE 16 7.7	LE 213		BXL 5.7	
	Fiber Test Results	ag d	1/8" Gage	G/tex	ACALA 4-42 26 5.	ACALA SJ-1 26 5.	LOCKETT 4789-A 21 6.6	DELTAPINE 16 22 7.7	STONEVILLE 213 21 7.4		LOCKETT BXL 22 5.7	
	Fiber J	Fi	Zero Gage	Mpsi	93	46	82	80	92		89	
				Rdg	4.5	4.0	3.9	4.3	4.5		6.4	
		Digital Fibrograph	Unif.	Pct	14	45	45	46	9 7		4.7	
		Digital Fibrogra	ן מיע	II	1.08	1.12	1.02	1.12	1.10		1.02	
	•		Stple	32s nued)	35	36	32	35	34		32	
	Area	mber	ode	(Conti	31	41	45	41	41	(A S	51	
	Production Area, Classification	Sami	No Name & Code	328 WESTERN AREA(Continued) CALIFORNIA(Continued)	WASCO 2 MID	WASCO 3 SLM	WEST TEXAS GARDEN CITY 1 SLM LT SP	PECOS 2 SLM	PECOS 2 SLM	NORTHWEST TEXAS	VERNON	
1		1	2	CA WE	2	m	¥ E	7	7	NO	-	

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1972

						- 12	2 -					
	Spin. Poten- tial	No		99	74	6.5	18		76	89	88	80
	fectins or 50s or x 12 tx	용		12	17	19	18		34	28	20	24
rns	Imprfect'ns 22s or 50s o 27 tx 12 t	왕		15	53	51	23		49	28	40	35
Carded Yarns	r o	8		100	90	90	06		70	900	90	70 80
١.	Appearance Index 22s or 50s 27 tx 12 t.	N		120	100	100	110		80	80 100	100	90
Test Results	x S	Pet		4.1	5.2	5.0	5.5		5.9	ν. Φ. Φ.	5.0	5.3
	Elong 22s or 27 tx	Pct		6. 8.4.	6.1	6.9	6.5		6.3	6.6	6.9	6 • 2
Processing	t g	Lbs		28	40	39	4 4 6 9		48 54	49 56	48 54	8 K
	Strength 22s or 50s 27 tx 12	Lbs		90 PERCENT 7.6 91 18.8 105	RCENT 113 127	RCENT 108 124	PERCENT 5 115 4 128		PERCENT 1/3 127	PERCENT 1/ 4 128 6 142	PERCENT 1 123 1 139	PERCENT 5 127 9 144
	P&C and Comber Waste	Pct		90 PE 7.6 18.8	100 PERCENT 6.9 113 14.9 127	100 PERCENT 8.2 108 15.6 124	100 PE 7.5 16.4		100 PER 7.3 15.2	100 PEF 6.4 15.6	75 PER 7.1 15.1	91 PEF 7.5 16.9
	P Ck	N N		m *	" *	" *	*		*	2 *	m #	m *
	Color Raw Sto	일		4	7	4	m		-	-	8	7
	S.A. Non- Lint	Pct		2.3	2.0	4.5	3.1		2.5	2.1	2.3	1.9
ts	Elon- gat'n 1/8"	Pet		310 5.8	310	310	310		1517-v 6.5	1517-V 6.9	1517-C 6.0	1517-70
st Results	oer 1/8" Gage	G/tex		COKER 25	COKER 23	COKER 24	COKER 24		ACALA 1	ACALA 25	ACALA 25	ACALA 24
Fiber Test	Fiber Strength Zero 1/6	Mpsi		81	86	85	83		06	85	93	95
Fi	Mike	Rdg		4.	4.2	4.7	4.5		3.5	3.7	3.9	3.7
	ul uph Unif.	Pet		45	24	94	45		43	45	43	<b>4</b> &
	Digital Fibrograph 2.5% Un	티		1.03	1.14	1.13	1.18		1.19	1.21	1.19	1.13
	Stple	32s	AREA	34	35	35	35	AREA	37	37	36	37
rea,				45	.е 41	45	1A 42	Ā	41	17	41	41
Production Area, Classification	Sample Number  Grade  No Grade  Name & Code		SOUTHEASTERN	ALABAMA SULLIGENT 3 SLM LT SP	GEORGIA DANIELSVILLE 2 SLM	MADISON 3 SLM LT SP	NORTH CAROLINA FALLSTON 2 SLM LT SP	WESTERN	NEW MEXICO HAGERMAN 2 SLM	HATCH 2 SLM	WEST TEXAS EL PASO 2 SLM	EL PASO 2 SLM

<sup>1/</sup> 100 percent selected for tests, less than 100 percent in the area  $\stackrel{*}{\ast}$  Comber Waste and Combed Yarn Data

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5 Cotton,
Table !

	Appearance Imprfect'ns Index	Lint Gra Yel Waste Waste 50s or 80s or 50s or 80s or 50s or 50s or 80s or 50s or 80s or 50s or 80s o	No No		d.
arns	pearance Index	80s or 7 tx	SI		100
Processing Test Results - Combed Yarns	Appes Ind	50s or 12 tx	읽		100
lts - C	tion	80s or 7 tx	Pet		4 - 4
st Resu	Strength Elongation	50s or 12 tx	Pet		4.7
sing Te	ոgth	r 80s or 7 tx	Lbs Lbs		37
Proces		50s ol	zol.		49
	Elon- S.A. Raw Stock P & C Comber	Waste	Pet		RCENT 16.4
	P & C	Waste	Fet		100 PERCENT 8.6 16.
	Color aw Stock	Yel	No No Pet		m
	Co Raw	Gra	욁		m
	S.A.	1/8" Lint	Pet		2.3
lts	Elon-	1/8"	Pet		EL CERRO 100 PERCENT 64 37 4.7 4.4 100 100
Fiber Test Results	er gth	1/8" Gage	G/tex		DEL CERRO 32 6,
fiber Te	Fiber Strength	Zero Gage	Mpsi		108
7	. ;	Мтке	Rdg		41 40 1.40 31 4.0
	ay th	cv	Pet		31
	Array Length	UQI	되		1.40
		Stple	32s	AREA	40
Production Area, Classification	& Sample Number	Grade Name & Code			a
F 2	Sa	No	-	WESTERN	ARIZCNA AGUILA 1 SLM

Table 6 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1972

1	, l	xor	1						
	ect n	80s or 7 tx	욁		1	2	1	2	. 7
	Imprfect ns	50s or 12 tx	읾		2	7	m	m	7
rns	ance	80s or 7 tx	81		110	100	110	100	100
nbed Ya	Appearance Index	50s or 12 tx	일		110	110	110	100	4.9 100
ts - Co	tion	80s or 7 tx	Pet		5.1	5.2	5.2	5.0	4.9
t Resul	Elongation	50s or 12 tx	Pet		5.5	5.8	5.7	5.7	5.9
ing Tes	gth	80s or 7 tx	Lbs		35	36	35	33	34
Processing Test Results - Combed Yarns	Strength	50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx	Lbs		63	63	63	61	19
	Comber		Pet		CENT 19.3	CENT 16.7	CENT 18.5	CENT 18.3	CENT* 19.3
	P& C Comber	Waste	Pet		90 PERCENT 7.5 19.	95 PERCENT 8.7 16.	98 PERCENT 7.6 18.	99 PERCENT 7.8 18.	100 PERCENT* 6 7.2 19.3
	or tock	Yel	읾		S	9	S	9	6
	Color Raw Stock	Gra	위		'n	S.	4	2	'n
		Non- Lint	Pet		2.3	4.1	2.7	1.7	2.1
ts	Elon-	gat'n 1/8"	Pet		8.8	-4-	0.6	8.9	-4 8.4
st Results	er gth	1/8" Gage	G/tex		PIMA S-4	PIMA S-4	PIMA S-4	PIMA S-4	PIMA S-4
Fiber Test	Fiber Strength	Zero Gage	Mpsi		100	98	96	16	66
Ex.		Mike	Rdg		0.4	3.3	3.4	3.3	3.6
	≱ d	CΛ	Pct		33	30	33	32	32
	Array Length	UQL	빔		1.47	1.46	1.48	1.47	1.37
		Stple	32s	AREA	<b>4</b> ,	**	4	4	<b>‡</b>
Area,	ber	de			7	7	4	4	4
Production Area, Classification	& Sample Number	Grade Name & Code		R.N.	RD			o V S O	35
Pro	Sar	No		WESTERN	AR IZCNA SAFFORD 1	NEW MEXICO COLUMBUS	WEST TEXAS EL PASO 2	EL PASO 2	PECOS 2

\* 100 percent selected for tests, less than 100 percent in the area